

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: P:\300.Environmental\6714 Carlsbad GP Update EIR\DUDEK WORK PRODUCTS\DOCUMENTS\Final EIR and RTCs\Revised AQ Section_Feb 2015\Emission Calcs\3.13.15 Submittal\2035 without GPU Emissions.urb924

Project Name: Carlsbad General Plan 2035 without GPU

Project Location: California State-wide

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>
TOTALS (lbs/day, unmitigated)	11,478.33	1,521.53	46,295.37	143.53	7,400.75	7,123.59

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>
TOTALS (lbs/day, unmitigated)	2,219.98	2,663.21	23,268.40	55.25	10,884.72	2,077.60

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>
TOTALS (lbs/day, unmitigated)	13,698.31	4,184.74	69,563.77	198.78	18,285.47	9,201.19

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>
Natural Gas	37.42	484.67	207.71	0.01	0.93	0.92
Hearth	8,749.32	1,036.86	46,087.66	143.52	7,399.82	7,122.67
Landscaping - No Winter Emissions						
Consumer Products	2,127.96					
Architectural Coatings	563.63					
TOTALS (lbs/day, unmitigated)	11,478.33	1,521.53	46,295.37	143.53	7,400.75	7,123.59

Area Source Changes to Defaults

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Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25
Single family housing	750.48	896.22	7,915.21	18.73	3,671.81	701.43
Apartments mid rise	234.69	280.27	2,475.26	5.86	1,148.26	219.35
Mobile home park	17.17	20.50	181.09	0.43	84.01	16.05
Regnl shop. center	98.03	117.82	1,015.27	2.41	479.47	91.39
Bank (with drive-through)	2.96	3.55	30.61	0.07	14.46	2.76
General office building	168.57	203.31	1,767.74	4.21	830.88	158.58
Government office building	15.19	18.27	157.80	0.38	74.43	14.19
Government (civic center)	25.06	30.15	260.40	0.62	122.82	23.42
Industrial park	411.31	496.40	4,322.82	10.31	2,030.12	387.56
Community Commercial	96.75	116.28	1,002.00	2.38	473.21	90.19
Neighborhood Commercial	209.86	252.21	2,173.39	5.17	1,026.41	195.64
Specialty Commercial	61.21	73.56	633.90	1.51	299.37	57.06
Streetfront Commercial	123.10	147.94	1,274.88	3.03	602.07	114.76
Other Commercial	5.60	6.73	58.03	0.14	27.40	5.22
TOTALS (lbs/day, unmitigated)	2,219.98	2,663.21	23,268.40	55.25	10,884.72	2,077.60

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2035 Temperature (F): 40 Season: Winter

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Single family housing	9,796.67	8.50	dwelling units	29,390.00	249,815.00	2,135,843.34
Apartments mid rise	337.03	6.10	dwelling units	12,807.00	78,122.70	667,925.65
Mobile home park	216.50	4.40	dwelling units	1,299.00	5,715.60	48,866.67
Regnl shop. center		510.10	1000 sq ft	74.00	37,747.40	279,066.53
Bank (with drive-through)		227.60	1000 sq ft	5.00	1,138.00	8,413.23
General office building		224.30	1000 sq ft	266.00	59,663.80	483,425.94
Government office building		286.30	1000 sq ft	20.00	5,726.00	43,317.19
Government (civic center)		787.40	1000 sq ft	12.00	9,448.80	71,480.17
Industrial park		144.60	1000 sq ft	991.00	143,298.61	1,181,102.93
Community Commercial		532.20	acres	70.00	37,254.00	275,418.82
Neighborhood Commercial		928.80	acres	87.00	80,805.60	597,395.79
Specialty Commercial		872.90	acres	27.00	23,568.30	174,240.44
Streetfront Commercial		929.40	acres	51.00	47,399.40	350,423.77
Other Commercial		86.30	acres	25.00	2,157.50	15,950.40
					781,860.71	6,332,870.87

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	46.8	0.0	100.0	0.0
Light Truck < 3750 lbs	11.2	0.0	100.0	0.0
Light Truck 3751-5750 lbs	22.4	0.0	100.0	0.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Med Truck 5751-8500 lbs	10.1	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.8	0.0	83.3	16.7
Lite-Heavy Truck 10,001-14,000 lbs	0.7	0.0	57.1	42.9
Med-Heavy Truck 14,001-33,000 lbs	1.1	0.0	18.2	81.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.9	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	3.4	32.4	67.6	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.3	0.0	92.3	7.7

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Regnl shop. center				2.0	1.0	97.0
Bank (with drive-through)				2.0	1.0	97.0

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
General office building				35.0	17.5	47.5
Government office building				10.0	5.0	85.0
Government (civic center)				10.0	5.0	85.0
Industrial park				41.5	20.8	37.8
Community Commercial				2.0	1.0	97.0
Neighborhood Commercial				2.0	1.0	97.0
Specialty Commercial				2.0	1.0	97.0
Streetfront Commercial				2.0	1.0	97.0
Other Commercial				2.0	1.0	97.0